DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-000251 Address: 333 Burma Road **Date Inspected:** 25-Jun-2007

City: Oakland, CA 94607

OSM Arrival Time: 800 **Project Name:** SAS Superstructure **OSM Departure Time:** 1730 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes Wei Huang No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS:** Yes N/A **Delayed / Cancelled:** No

34-0006 **Bridge No: Component:** HP2007153

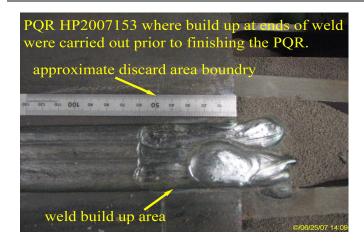
Summary of Items Observed:

Caltrans Quality Assurance (QA) Inspector, Bruce Berger was present to observe quality control functions related to welding, testing and fabrication procedures at the Zhenhua Port Machinery Company (ZPMC) facility on Changxing Island for the San Francisco Oakland Bay Self Anchored Suspension Bridge.

Caltrans Quality Assurance (QA) Inspector Bruce J. Berger witnessing ZPMC performing submerged arc welding (SAW) procedure qualification record for (PQR) HP2007153, PWPS-B-T-3221 test. The welder is identified as Mr. Jiang Xiao Hu, welding passes sixty four through eighty five. The test plate material type is identified as A709 Grade HPS485W and thickness, 90 mm. The PQR complete joint penetration weld joint testing was performed in the flat (1G) position. The welding consumable is identified as 4.8 mm electrodes, classification EM12K filler metal brand JW-3, specification AWS A5.17 with flux JF-B. Caltrans QA observed ZPMC QA Inspectors, Mr. Wei Huang and Xia Hu along with two associates monitoring and supervising the testing per AWS 5.13 criteria; amperages, voltages, travel speeds, preheat and inter-pass temperatures. Also present at the test site was American Bridge/Fluor (ABF) quality control (QC) inspector, Mr. Kevin Dye. QA observed that the wind velocity at the ZPMC testing site appear to be in conformance with AWS D1.5, paragraph 4.14.3 requirements. A repair at the both ends of the PQR, mostly in the discard area, was carried out to level out the weld. The first 30 passes were put in with out the use of end tabs on the plate ends. These were added around pass 30 however the disparity in the weld ends was already there. Welding was completed, however due to 21.8% travel speed variation caused by the last pass Mr. Wei Huang decided to remove the one pass and re-weld it in tomorrow, Tuesday June 26, 2007. The Caltrans lot number assigned to this PQR is B72-052-07.

WELDING INSPECTION REPORT

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Summary of Conversations:

No relevant conversations took place on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	Berger,Bruce	Quality Assurance Inspector
Reviewed By:	McClary,David	QA Reviewer